

DIN EN 13157:2010-07 (E)

Cranes - Safety - Hand powered cranes (includes Amendment A1:2009)

Contents		Page
Foreword		3
Introduction		4
1	Scope	5
2	Normative references	5
3	Terms and definitions	6
3.1	General definitions	6
3.2	Definitions for hand chain blocks	7
3.3	Definitions for lever hoists	8
3.4	Definitions for jaw winches	10
3.5	Definitions for hand powered trolleys supporting lifting machines	10
3.6	Definitions for drum winches	12
3.7	Definitions for pulley blocks and deflection pulley	13
4	List of significant hazards	15
5	Safety requirements and/or measures	21
5.1	Hand chain blocks	21
5.2	Lever hoists	23
5.3	Jaw winches	28
5.4	Hand powered trolleys supporting lifting machines	30
5.5	Drum winches	32
5.6	Pulley blocks and deflection pulleys	34
6	Verification of the safety requirements and/or measures	35
6.1	General	35
6.2	Categories of verification	35
6.3	Verification methods	36
7	Information for use	47
7.1	Information for use of hand chain blocks	47
7.2	Information for use of lever hoists	48
7.3	Information for use of jaw winches	49
7.4	Information for use of hand powered trolleys	50
7.5	Information for use of drum winches	52
7.6	Information for use of pulley blocks and deflection pulleys	53
Annex A (normative)	Standards for hooks	56
Annex ZA (informative)	Relationship of this European Standard and the essential requirements of EC Directive 98/37/EC	57
Annex ZB (informative)	!Relationship between this European Standard and the Essential Requirements of EU Directive 2006/42/EC"	58